



Sidel Systems:

**The Green Way for the U.S. GSA
to Conserve Energy
and Reduce Federal Spending**



With Sidel Systems' Flue Gas Heat Recovery Condensers the U.S. General Services Administration can:



Realize an immediate savings of up to 15 percent in boiler energy costs at federal facilities retrofitted with our systems. Sidel equipment pays for itself.



Fulfill President Obama's mandate to improve the environment by reducing the carbon footprint of every facility equipped with a Sidel Flue Gas Heat Recovery Condenser.



Provide new, usable water as a byproduct of operating Sidel equipment. This water can be used on-site in a variety of ways, cutting operating expenses even further.



Sidel Systems Supports the 2011 Clean Energy Standards Proposed by the White House



President Barack Obama in his January 2011 State of the Union Address announced new Clean Energy Standards that could redefine U.S. industry and consumer energy consumption habits. The overall goal is to protect the environment while promoting cleaner energy sources.

Discussion has now shifted to Congress, where lawmakers on both sides of the aisle face the challenge of defining clean energy while balancing competing regional, national and industry-specific political interests.

One issue requires no debate: Sidel Systems has been producing energy-efficient flue-gas condenser systems for more than two decades — helping corporations and industries of every size — long before “going green” became such a hot trend.

We are the pioneer of this technology in North America. We have no competition in this industry.

Our company’s Flue Gas Heat Recovery Condensers pour money back into the budget of every corporation and organization that uses our equipment. Our units can save up to 15 percent on the energy expense of operating boiler equipment while reducing carbon emissions.

Our systems are not only the right solution for the U.S. GSA, we have the *right now* solution to meet the administration’s mandates — not tomorrow, but **today**. Given the time factor, this is a clear win for the GSA.

Turn the page to learn how we can help.



Sidel Systems Can Help the U.S. GSA Save Money by Reducing Energy Costs at Every Federal Facility in the World



Virtually all federal buildings and facilities have a natural gas or LP boiler or appliance. A significant amount of wasted energy is lost in the flue gas whenever this equipment is in operation. In fact, 20% or more of the available energy is literally going up in smoke. The boiler is wasting energy and money – which is something the government cannot afford to do, especially in this economy.

Most boilers in federal facilities are 20 to 50 years old. Rather than contemplate the heart-stopping cost of replacing them, Sidel Systems will retrofit to the existing equipment.

Our systems capture nearly all of the energy potential exhausted in the flue gases and turn it into usable heat. This typically raises the boiler or appliance efficiency to between 90-

95% and reduces energy costs by 10-15%.

This high rate of savings allows our units to pay for themselves in a short amount of time and continue to save money for many years. Our first units were installed in the early 1980s and are still saving our clients money to this day.

Another great feature of the SRU heat recovery systems is that they have no moving parts to wear out. Our units are self cleaning on the flue gas side, and are virtually maintenance free, which means there are no expensive service and repair costs to worry about in the future.

The Sidel Value Proposition

Here's an example of the potential savings by using a Sidel Systems unit: For a typical 250 HP natural gas fired boiler operating with an exhaust gas temperature of 410°F and 15% excess combustion air the efficiency is approximately 80%. The fuel input is approximately 10.5 million BTU/hr, and 20% of the fuel's total energy is going up the chimney. By incorporating a SRU waste heat recovery system, about 15% of the fuel's original energy can be recovered. If the boiler operates for an equivalent of 6,000 full load hours per year, and natural gas costs \$.70 per therm, the annual savings would be: $10.5\text{M BTU/hr} \times 15\% \times 6,000\text{hrs/yr} \times \$7.00/\text{M BTU}^* = \$66,150$ (* 1 M BTU = 10 therm).



Sidel Systems Can Reduce the Carbon Footprint of Every Federal Building With Our Installed Retrofit Units



Reducing carbon dioxide emissions at federal facilities with a Sidel Systems Flue Gas Heat Recover Condenser is a powerful opportunity for government agencies to lead by example.

With all the talk of global warming and increased public scrutiny of the way heavy industry conducts business, the U.S. Government can and should set an example by taking steps to lower the carbon footprint of all federal buildings and facilities. The GSA can take the lead with this initiative.

Since 1958 the concentration of CO₂ in the atmosphere has risen nearly 25% from 315.71 parts per million (ppm) to 392.94 ppm, and will continue rising at an ever-increasing rate if drastic action is not taken.

CO₂ emissions are the primary concern related to Global Warming – an issue of great importance to governments, corporations and major organizations worldwide, along with a significant percentage of the general population.

As our SRU Condensing Heat Recovery units capture most of the energy potential exhausted in flue gases and turn it into usable heat, they reduce the boiler flue's CO₂ emissions simultaneously. Sidel Systems save money, conserve energy and help make the world a greener place to live.

By partnering with us, the GSA can set a new standard for social and fiscal responsibility throughout the United States and abroad.

We are the acknowledged leaders in this industry. Our systems heat building spaces covering tens of thousands of square feet, using the recaptured energy that would otherwise be lost to exhaust gases from a natural gas boiler. We have the know-how and experience to maximize the benefits of this heat recovery technology.

No other company has any system even approximating the energy savings and CO₂ reduction benefits that Sidel Systems delivers.



Sidel Systems Units Create Usable Water (Literally Out of Thin Air)



Next to air, no other natural element is more critical to our survival or more essential for our long-term physical health than fresh, pure water. It is one of the world's most precious natural resources.

Our global supply of clean water is shrinking due to environmental pollution. At the same time, population growth is increasing the world demand for water. Protecting our water supply is a critical, worldwide conservation issue.

Sidel Systems can help the federal government conserve water while saving money at the same time. Did you know that approximately 8 percent of flue gas is water? Our SRU Heat Recovery Condensers capture most of the energy potential exhausted in flue gases and turn it into usable heat. During this heat recovery process, as the waste

hot exhaust gases are cooled to below the dewpoint temperature, water is being created and collected at the base section. Every gallon collected is a gallon the government does not need to purchase. This not only conserves the public water supply, it also saves money.

There are several beneficial uses for this reclaimed water. It can be used as boiler feed-water, or added to the plant wash-down water or to the evaporative coolers. It can be treated and applied to almost any application, including irrigating the grounds and landscaping around federal buildings.

So while our SRU units are increasing energy efficiency and saving money, they're also conserving water and making federal facilities "greener" — U.S. taxpayers will love you for that.



You're in Good Company with Sidel Systems

In the more than 20 years that we've been in business, the team at Sidel Systems has had the pleasure to serve many fine corporations, organizations and governments.

Most federal facilities throughout the country and the world can be operating at well over 90% energy efficiency, while reducing their CO2 footprint by tens, or hundreds, or even thousands of pounds per hour.

If our governments and industries can increase their energy efficiency to these levels, the amount of available natural gas and LPG fuel will be around for a lot longer. This can

only be good for the consumer, as it may make fuel prices much more affordable.

Getting the word out about our products hasn't always been easy. When Sidel Systems first started, natural gas was relatively inexpensive and the term "going green" was still a few decades into the future.

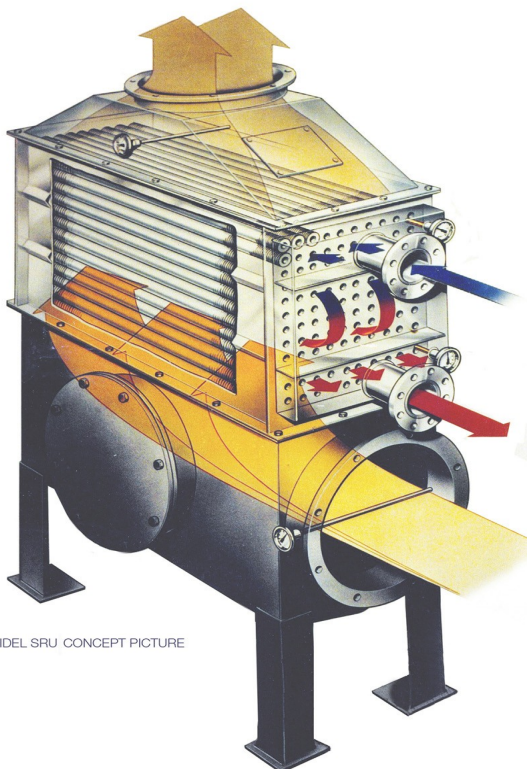
Times have changed. Our commitment to saving energy and conservation has not. Our focus has always been on designing and constructing high-efficiency systems that deliver measurable results.

Every day we remember our mission and ask, "Is it important enough for this country and the world to take notice of global warming? By increasing energy efficiency and at the same time reducing the amount of pollution flowing into the atmosphere, will it make the difference we hope is required to preserve this earth?"

We hope the answer will be yes, but who of us knows for sure? Still, what if we do nothing? Suppose in 20 or 30 years our grand-kids or great grand-children come to us and ask, "You knew and you did nothing?"

How will we reply?

If the U.S. Government will not step up to champion energy savings and environmental protection, who will?



SIDEL SRU CONCEPT PICTURE



Sidel Systems USA: Forging Partnerships for a Better World

Our recent customers include D.C. Housing Authority, Del Monte Foods, Kraft Foods, E&J Gallo Winery, Holman Boiler Works, Akzo Nobel, Georgia Gulf, Best Glove, Harris Ranch Meats, Steam Engineering, Darigold, and many others across the United States and Canada.

Just in the last months Sidel Systems entered agreements and is constructing to supply this energy saving equipment to the Ritz Carlton Hotel in Montreal, Quebec, Canada, the South Dakota State Penitentiary, in Sioux Falls SD, and the Caderock Naval Research Laboratory in Maryland, in addition to a pending project for a university.

We welcome a partnership with the US General Services Administration.



Fast Facts:

Sidel SRU series waste heat recovery units are built in North America in accordance with ASME (American Society of Mechanical Engineers) codes.

Our systems can be installed with any natural gas or LPG fired power burner boiler or heating unit.

We retrofit to work with the government's existing equipment, saving money and time.

Questions?
We've Got the Answers You Need

**Call our Information Hotline TODAY at
805 462-1250 or send an email
to Sid@SidelSystems.com
www.SidelSystems.com**